Family Lactariidal Body obling, rather deep. Head with lower profèle lettle more inclined. I mout fourted. Eye high, lateral. mouth cleft deep, obligne. Teeth small in faw, 1 or 2 pairs of canines in front. Preopercle edge entere. Till openings wide, membranes not united, free from isthmus. Gill rakers lanceolate. Pseudobranchiae present. Branchiostegals 7. ho deep noteh on shoulder girdle inside gill opening. Peritoneum pale. Vertebral 24 of which 14 candal. Exper surface of head with large unciferous cavities. L'eales. moderately small. Lateral line continuous. Avi bladder befurcate both anteriorly and posteriorly.

Pylorie appendager 6. Two dorsal fins, spinous fin feeble, Anal with 3 feeble spines. Candal moderate. Pettoral rather low. Ventral Amall. One genus.

Genus Lacturius Valenciennes Lactarunt Vatenciennes, Hist, hat. Pours, vol. 9, p. 237, 1833. (Type Vermber lactarius, Vehneeder, Olatyleper Hourison, hat. Hist. animals, vol. 2, p. 247, 1839, Offer Rember lacturius Vehneider, monotypie.) Ody deepest forward, well compressed. It ead moderates. compressed. Anout conce. Eye larige, little advanced in head. heapillary reacher tretow ege. Teeth small, curved, formted un fourt, upper in villeform band with for 2 pains of canines near Lymphysis and tower uniserial, with fair or large Lingle Canine centeriorly. Amall teeth on vomer, palatines and tongue. Veales

out Cama pama Buchanan-Hamilton Bota pama Buchanan- Hamilton, Fisher of Ganges, 1822, pp. X9, 365, pl. 32, Lig. 26. Tunget trital esterarier, Calcutta. Deinena Truma Currer, Hist. hat. Tous., vot.5, 1530, p.55, pl.10/ Bengal and Irranteli Kwer). In I udan und i nnam, Kep. U. V. Fish Comm., pt. 14, 14-6 (187), p. 347 (norme), & Teindachner, unn. Hofmus. Weny vot.11, 1876, p.227 (S. randdi mouth at Kangoon). Likeyd, Records Indian hura., V.t. 1, 1907, 7.226 Colkiththy pama Timther, Cut, Fisker. Brit. Mls., vol. 2, 1869, p. 316 (Calcutter, Ben it Bu, notion, Just notice), 1sundsteer, Kritteil, hutfirk, hun. Hamburg, vot. 21, 1903 (1904), p. 155 (Knaka Hakanyer). - Fowler, Fra. Mart hat. Vai. Philadelphia, 1929 (1730), p. 650 (East nhier).

moderate, cycloid, some extend over soft dorsal and anal. Lateral line axial, without senter. First donal with Lecole spines, connected by deeply notelied membrane. Hoft dorsal with numbrous rays. anal like toft dorsal, lettle Enger. Candal deeply emorginate. Peetoral printed, turderate. Gentral inserted below pectoral. trupe. a single species.

Lactarius lactarius (Hehneider) Homber lactarius Johneider, Tyst. Dikth. Block, p. 31, 1801 (type locality, Tranquebar).

72683 U.S.N.M. Palaboean Ratoe, Wynkoops Bay, Java. Bryant and Palmer, 1909. Length 106 mm.

No. 75433 U.S.N.M. Wakanoura, Japan. Jordan and Snyder. Length, 108 to 132 mm.

No.75434 U.S.N.M. Kobe, Japan. Jordan and Snyder. Length 185 mm.

Mo. 85878 U.S.N.M. China. A. de C. Solerby. Length 103 mm. Scales 49 in

lateral line to caudal base and 6 more on latter. Upper molars posteriorly in 4 rows, lower in 3. Black spot at origin of lateral line.

97063 U.S.N.M. Shanghai. A.de C. Sowerby. June 1927. Length, 94 to 195 mm.

53015 A.N.S.P. Bombay, India. Prof. F. Hallberg, 1924. Purchased.

A Length 235 mm.

Frigure 80 in Sparns berda Forskål, young

Sparus berda Forskal

Tigure 8 4 cn - 8pt

Sparus berda FORSKAL, Descript. Animal., 1775, p. 32. (Arabia. - CMELIN, Syst. Nat. Linn., vol. 1, 1788, p. 1276 (Red Sea). - WALBAUM, Artedi Pisc., vol. 3, 1792, p. 292 (on FORKAL). - SCHNEIDER, Syst. Ichth. Bloch, 1801, p. 278 (Red Sea). - LACEPEDE Hist. Nat. Poiss., vol. 4, 1802, pp. 31, 105 (Arabia). - KLUNZINGER, Jerh. zool. bot. Ges. Wien, vol. 20, 1870, p. 758 (Koseir, Red Sea); Fische Roth. Meer., 1884, p. 44, pl. 13, fig. 1, JORDAN and EVERMANN, Proc. U.S. Nat. Mus., vol. 25, 1902, p. 350 (Formosa). - STEINDACHNER, Denkschr. Akad. Wiss. Wien Math.-nat. Kl., vol. 71, pt. 1, p. 135 (Kor Garrieh, South Arabia). - JORDAN and RICHARDSCN, Mem. Carnegie Mus., vol. 4, Aug. 28, 1909, p. 189 (on JORDAN and EVERMANN). - SEALE, Philippine Journ. Sci., vol. 9, 10. 1, (1914, p. 67 (Hong Kong). - FOWLER, Copeies, Lo. 58, June 18, 1918, p. 64 (Philippines); Journ. Bombay Nat. Hist. Soc., vol. 31, Nov. 1926,

200/Line

2/25

Seriola Luctaria Cewier, Règne Animal, ed. 2, vol. 2, p. 206, 1829.

Platylepes lactaria Swainson, hat. Hest. Animals; vol. 2, p. 247, 1839 (m Cuvier pl. 261).

7126

Lactarius lactarius Fowler, Journ. Acad. hat, Vei. Philadelphila, ter. 2, vol. 12, p. 518, 1904 (1905) (Padang).

- Evermann and Yeale, Bull. Bur. Fisher, vol. 26, p. 63, 1906 (1907)
(Han Fabian). — Yeale, Philippine Journ. Vei., vol. 5, p. 270, 1910.

Parma, the specific name of the genotype, according to Buchanan-Hamilton.

Fourter, Copein, ho.57, p. 63, June 18, 1918 (Thilippines. j. Frim's Bombay hat. Hat. Her. 7-1.30, ho.2, p.318, Funuary 25, 1925 / Tuticonn, Fre Mead. Lat. Hei. Thilarderphia, root. 77, 1727, p. 373 Arien, Phirippines, Journ. Bombay hat. Hist. How, And. 33, holl, D. 111, Veptember 30, 1929 (Bombay); hemi. Bushop hunt, vot. 10, p. 150, 1/28/ comfuted. Weber and Beaufort, Fish, Indo Austral. Archip., vol. 6, p. 307, fig. 65, 1931 (Deli, Vumatra). Fowler, Prov. Acad. hat. Vci.
Thiladelphia, vol. 87, p. 144, 1935 Bangbols.

Nemus Tuma, neu-jenus Tota fama 1 samun- Humilton. Elingatety ovoid, narrowing to slender Candal fredencle. Knout short. Eye small, advanced, houthoblique, lower fav little skorter. Teeth in villiform bands in jaws, outer upper and lower inner rows little enlarged. Preoperale cremilated, with distinct denticles at angle in young. Scales small, cycloid on head, cleveral on body. Lateral line with enlarged scales. Spinous dorsal with 10 spines, fin small, and soft with long base, rays 40 to 43. Unal with 2 springs and 7 rays. Candal comeate. Pertoral long ar head, ventral much shorter. Wiagnoris Known by its very lang dorsak fin, base of which nearly kalf body length without candak, also by

Lactarius decicatulus Vicenciennes, Hist. hat. Priss, wet. 9, p. 238, pl. 261, 1833 (type tocakety, Pondicherry malabar. (Batavia);
hat Benesh arch. and Indie, vol. 2, h. 518, 18 45 ,

— Bleeker, Verh. Batavia, Tenovt hadera, soum Cesiatic. You, Buylal, vol. 18, pt. 2, p. 1120, 1849(1850) Judy gat ou).
Bangculling, hatereel, vol. 24, 7.74, 1852 Batavia, Jegal; Vanarung; Rembang; Gadang); (hal. Dokth. Bengal), vol. 25, p. 46, 1853 (reference); hat. Tyde. hed. Indie, vol. 7, p. 227, 1854 (micassar), p. 312 lenjer; vol. 8, p. 345, 1855 Tikor, Alematra, p. 393 amboinas vol. 12, p. 215, 1856 (hins), leet. Noc. Vei. Ind. heart, vol. 2, ho. 7, p. 5, 1857/ ambouna; vol. 3, ho. 6, p. 2, 1857-58 (Hintauving, Bornes, Vumatra). Verslag. Kom, alsud. Wet.

U. II 10 or 11, spring weather, record 5, first un 24/5, condak 11/3, rownted to uneater; heart depth of candak pedunche 3'14; poetorak 11/2; vanteral / 1/5. British about, yetden bekou-Tive or 6 round to blacks spots. Fire i rhuist mary makley. Germe with body ran fins except whitish can sal okaeta, Keacher 405 mm. (Curier, India, Durana, Finance, mener Pinnspiker, dir spork, Last India. Werden IN Deline, The Tho mm!

Sinther, Cat. Fish. Bret. hun, vol. 2, f. 507, 1860 (haadras); haalay Peninsula; Sumatra; Amboyna). - Tag, Fisher of malabar, p. 107, 1865. _ Bleeker, Verslag, Kow. Likad. Wet. amsterdam, 1er. 12, vol. 2, p. 300, 1868 (waique). - Day, Fishes of Indias, Lt. 2, p. 245, pe. 53, fig. 2, 1876. Kluminger, Sitzs. Ber. akad. Wish. Wien, math. - nature. Kl., vol. 80, pt. 1, p. 380. 1979 (1880) (Lucensland) . _ Karoli, Termesz. Fineteta, Budapest, vol.5, p. 161,1881 (Prelaboren).
— macleay, Froz. Linn. Vor. hew Houth Waler, voll. 9, pt. 1, p. 26, 1884 (copied). Day, Friday, Farma British India, Fisher, wol. 2, 1. 196, fig. 67, 1889.

with 5 to be olive spots, most distinct medially on find; inner ray Dørnewhet reddish, membranes Miraceous), Marker bund at buse. Pettorald file reddisk. 8316, 8590, 18577, 16578, 23193, 23194. Cathulogan, Mamar I sland. lyril 15, 1908. Length 55 to 75 mm. 2 symples. Cuttalogun Upril 15, 1908. Length 36 to 37 mm. 11 examples. Lattoulogun. Upril 16, 1908. Leng. th 27 5 67 mm. 18393 to 18396. Coba market. Upril 4,1908. Lengett 3- 50 100 mm. 24068 and 54009. Lebr market, impuli 27, 1907. Leng th 66 to 70 mm.

— Duncker, heitteil. katurh. hus. Hamburg, vol. 21, p. 158, 1903 (Pinang; halay Peninsula; Hingapore).

Lactaria delicatulus Blecker, Cet. How. Hci. Ind. heerl., vol. 3, ho. 9, p. 2, 1857-58 (Padang, Vumatra).

Donth 5 1/2; head 3 /2. I nout 4 1/2 in head trim mout tip, we le to 7, 1/4 to 1/3 m anout, 1/2 in interorbital, mayitland reaches 73 in mout or opposite and use edge, ungth 2/2 in head show anout tip; pair of ting Front canined in each jour I send of upper vikerform teeth with outer com curved row, below will ret, conic pointed teeth isking willer I mundible interorbitar low; fretjærere ed e spinate in young, Crenneate to intere with age. Vouken en ekvil, 95 rouge akon above tateruk tine, 35 ukan hekon 1,14 realer above, 26 below. Lateral time unched forward, struckt whove niddet I mal. in total head length, List ran i,

Lactarius burmanicus Lloyd, Rec. Dudian hus, vol. 1, pp. 229, 1907 (type locality, Albyab).

Longitudinal with 1, smetimes 2,

longitudinal brown bunds busally,

and with 1; caudal with 4 or 5 deep

brown bank transversely, usually

as spots on membranes.

East India, Thilippines.

Depth 2 3 to 3; head 2 2 to 3, width 23 to 3. Amout 33 to 4 in head from knout tip; left 3 = to 5, greater than snout in young to equal with age, greater than interorbital in young to 15 in interorbital with age; maxillary reaches = to = in eye, expansion 16 to 2 in eye, length 2 to 27 in head from snout tip; interorbital 32 to 4, convey. Till rakers 3+12, lanceolate, little langer than gill filaments or 2 in eye. Acales 70 to 80 in lateral line. Heales very caducour. Lateral line little high at first, slightly inclined, median at candal base. Q. I, VIII or I, VIIII, 20 to 22, second

spine 7 = to 3 in total head 2/33 Kength, first branched ray 2 = to 2 3; a. III, 25 to 28, third spine 4 3 to 5, first branched ray 2 ½ to 2 ½, candal 1 ½ to 1 ½. least depth of candal peduncle 3 to 4 6; pectoral 1 to 18, rays II, 15; ventral I, 5, fin 24 to 25 in total head length. Brown on back, sides and below silvery white. Iris silvery white. Deep brown blotch about rige of pupil on operate above and of and another at upper end of opercular flap. Fins pale, dorsals and caudal tinged Erownith. Cerabia, India, Ceylon, malaya, Burma, East Indies, Philippines, China, Queensland.

22143. D. 5461. Caringo Deland (W.), N.12°W., 4.9 miles / lat, 13° 57'42"N., Long. 123°66'42" F.), Cast coast of Luzan. In 11 fathing. June 14, 1909. Length 145 mm. 225/8, Dagupan, Luzon. hearch 19, 1908. Longth 71 mm. 6748, handamarket. April 16, 1909. Length 398 mind. 8857. Off Dast beach. June 15, 1909. Ledgth 270 min Length 730 6538, Off dat to 270 mm. 85-72, D.5-442. Han Fernando Point Light N. 39° E., 8.4 miles lat. 16° 30'36"N, ling. 120°11'06"E"), west coast of Lugan. In 45 fathours. he ay 11, 1909. Length 235 mm. J 11941. Tackottan market, Leyte. april 12, 1908. Kongth 175 mm.

1908. Length 177 mm. Lower gill trakers 151. Hanto Umingo Harbor, Batan Island. hovember 7, 1908. Length 126 mm. 2765. Fort hataloi, Luzin. Length 12 min. Lower gill ratours 23. 135-29. Elki, Bourp Island, Dutck East Indust. December 7, 1907. Length 18/mm. Lower gillfrakers 23, 13622 Birabirahan Island, off Borneo. December 31, 1909. Length 135 mm. Lower gill rathers 25. 12857, 13641, 13647, 13651. makeyan I sland. hovember 24, 1907. Length 165 to 242 mm. Lower gill rubert 21 to 23. Due sperimen with head brothen off, another with tail feverely from body. 57388 U.S.N.M. Kyria, Vainore. Burene of Fisheries. The 103 to 103 to 7 mm,

17908. Handaban, Borneo. harch 4, 1908. Length 184 mm.

Expensis atternaides Vilenciennes, Hat. hat. Voiss., wt. 7, 1831, p. 526. Gram. Le Elera, Cat. Farma Filipinas, vol. 1, 1875, p. 481 (copied). ? Upeneus mauritianifs E. J. Bennett, Froc. Zool. Ho. London, 1831, p. 57. maurituis. Elpeneus quelletti Tilchrist and Thompson, Unn. Nouth african mus., vol. 6, 1908-11, p. 168. Kurban, Inner Harbor, Kunn. Surban hus., Jol. 1, 7t. 4, 1917, -4, 365

Philippiner. 1923. Rev. Joseph Clement. Purchased. A. h. A. P., three examples. Tuticorin India, madras Fisheries Department. Length 84 to 113 mm. A.h. A.P., four examples. Bombay, India, 1925. Prof. F. Hallberg. Purchased. Length 140 to 146 Turni.

52718 A.N. S.P. Drion, Luzon. May 11, 1923, Rev. Joseph Clemen. Purchased. Length 156 mm. 52995 A.N.S.P. Durban coust, hatal. hovember 27, 1925. H. W. Bell marley. Length 133 mm. 5298 A.N.S.P./ Welagoa Bay. Portuguese East africa. July 1923. H. W. Bett marley, Length 235 mm. 5-30-22 A. N.S.P. hatal, 1925, H.W. Bett harley, Length 232 mm. 53044 A.N.S.F. Jugela River in 60 Luthoms, hatal. H. W. Bell 53/28 and 53/29 A. N. S. P. Bombay, India. 1924. Prof. F. Hallberg, Length 168 to 195 mm.